

Fig. 1A

AKAP188

Amino acid sequence

MERPAAGEIDANKCDHLSRGEEGTGDLETSPV
GSLADLPFAAVDIQDDCGLPDVPQGNVPQGNPKRSKENRGDRNDHVKKRK
KAKKDYQPNEYFLSIPITMKKTAGIKVLQNSILRQDNRLTKAMVGDGSH
ITLLVMQLLNEDEVNIGTDALLELKPVEEILEGKHLTLPFHGIGTFQGQ
VGFVVKLADGDHVSALLEIAETAKRTFQEKGILAGESRTFKPHLTFMKLSK
APMLWKKGVRKIEPGLYEQFIDHRFGEELLYQIDLCSMLKKKQSNGYYHC
ESSIVIGEKDRKEPEDAELVRLSKRLVENAVLKAVQQYLEETQNKKQPGE
GNSVKAEEGDRNGDGSDDNNRK

Nucleotide sequence (SEQ No. 1)

ATGGAGCGCCCCGGCGGGAGAAATAGATGCCAATAAGTGTGA
TCATTTATCAAGAGGAGAGGAAGGGACGGGGACCTGGAGACCAGCCCTG
TAGGTTCTCTGGCAGACCTGCCGTTGCTGCGTAGACATTCAAGATGAC
TGTGGACTCCCTGATGTACCTCAAGGAAATGTACCTCAAGGAAACCCAAA
GAGAAGCAAAGAAAATAGAGGCAGACAGGAATGATCACGTGAAGAAGAGGA
AGAAGGCCAAGAAAGATTATCAACCAACTATTTCTGTCCATTCAATC
ACCAACAAAAAGATTACAGCTGAATTAAAGTCTTGCAAAATTGATACT
GAGACAGGATAATCGATTGACCAAGCCATGGTCGGCAGGGCTCCTTC
ACATCACCTGCTAGTGATGCAGCTTAAACGAAGATGAAGTAAACATA
GGTACCGACCGCTTTGGAACTGAAGCCGTTGCTGAGGAGATCCTTGA
GGGGAAAGCATCTGACTTTGCCCTTCCACGGGATTGGCACTTTCCAAGGTC
AGGTTGGTTTGTGAAGCTGGCAGACGGAGATCACGTCACTGCCCTCCTG
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GCGAGTCCTCGATCGTGAATGGTGAGAACCGACGAAAGGAGCCTGAGGAT
GCTGAACCTGGTCAGGCTCAGTAAGAGGCTGGAGAACGCCGTGCTCAA
GGCTGTCCAGCAGTACCTAGAAGAGACACAGAACAAAAGCAGCCGGGG
AGGGGAACCTCCGTCAAAGCTGAGGGAGATCGGAATGGCGATGGCAGT
GATAACAACCGGAAGTGA

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Fig. 2: Interaction of AKAP188-CFP
and RII α -YFP

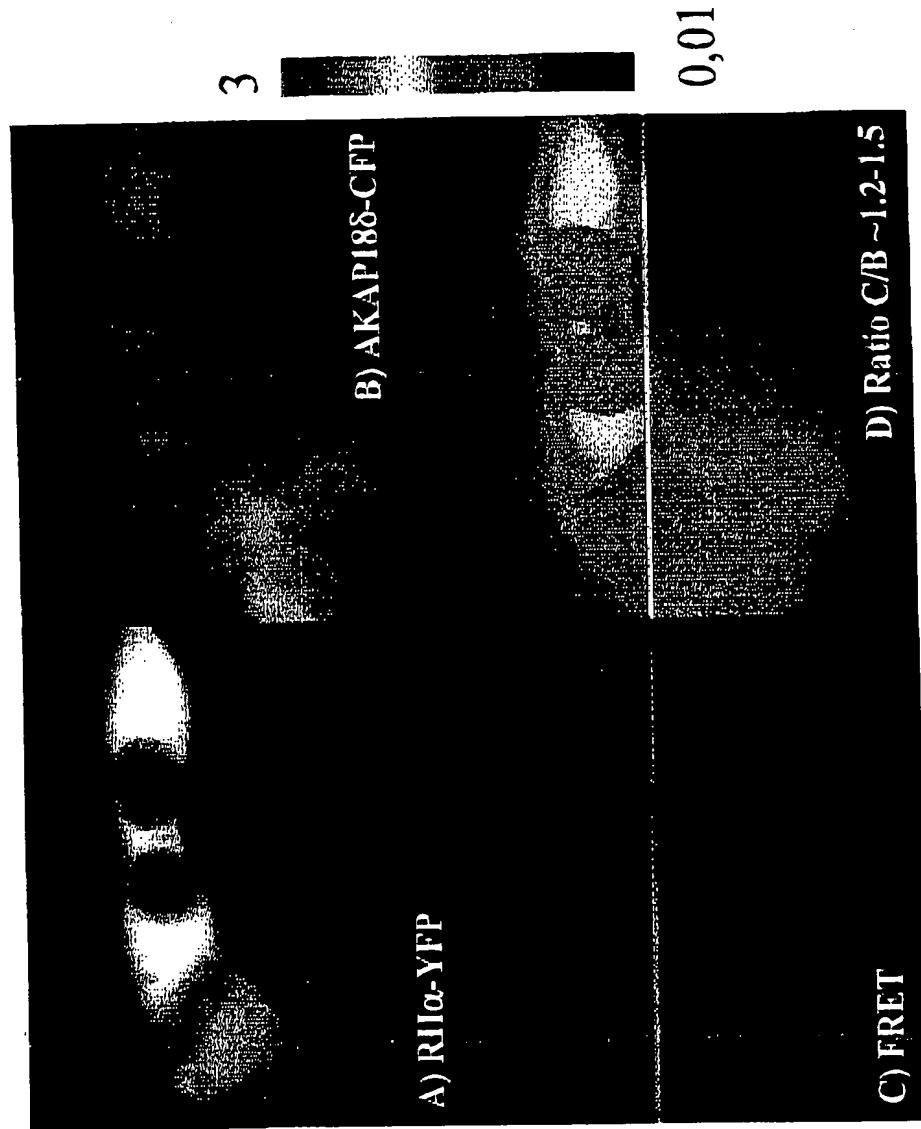


Fig. 3: *Fluorescent Resonance Energy Transfer (FRET) between AKAP188-CFP and RII α -YFP*

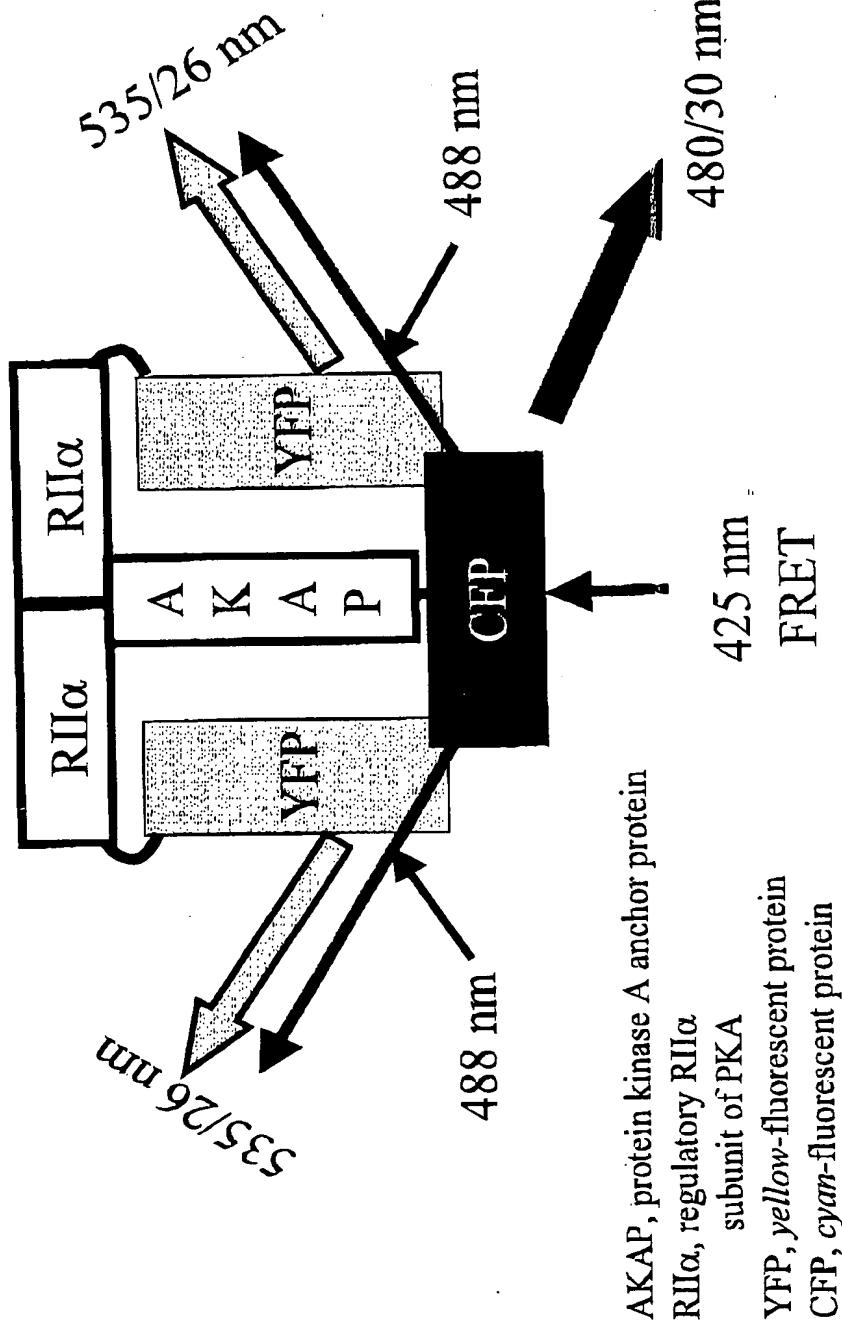


Fig. 4A

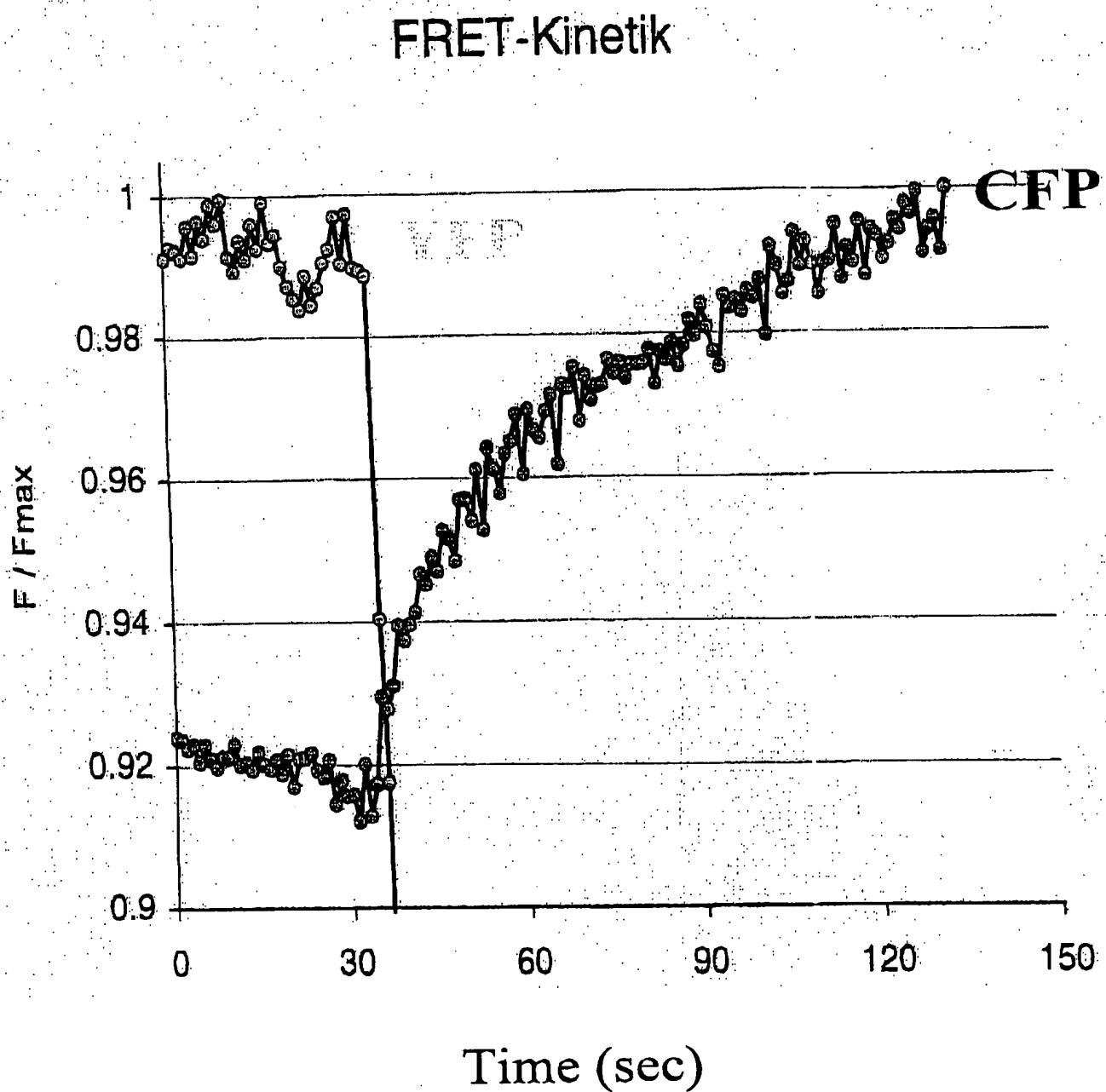


Fig. 4B

Bleaching of acceptor YFP (RII α -YFP)
results in an increase of fluorescence emitted
by donor CFP (AKAP18 δ -CFP)

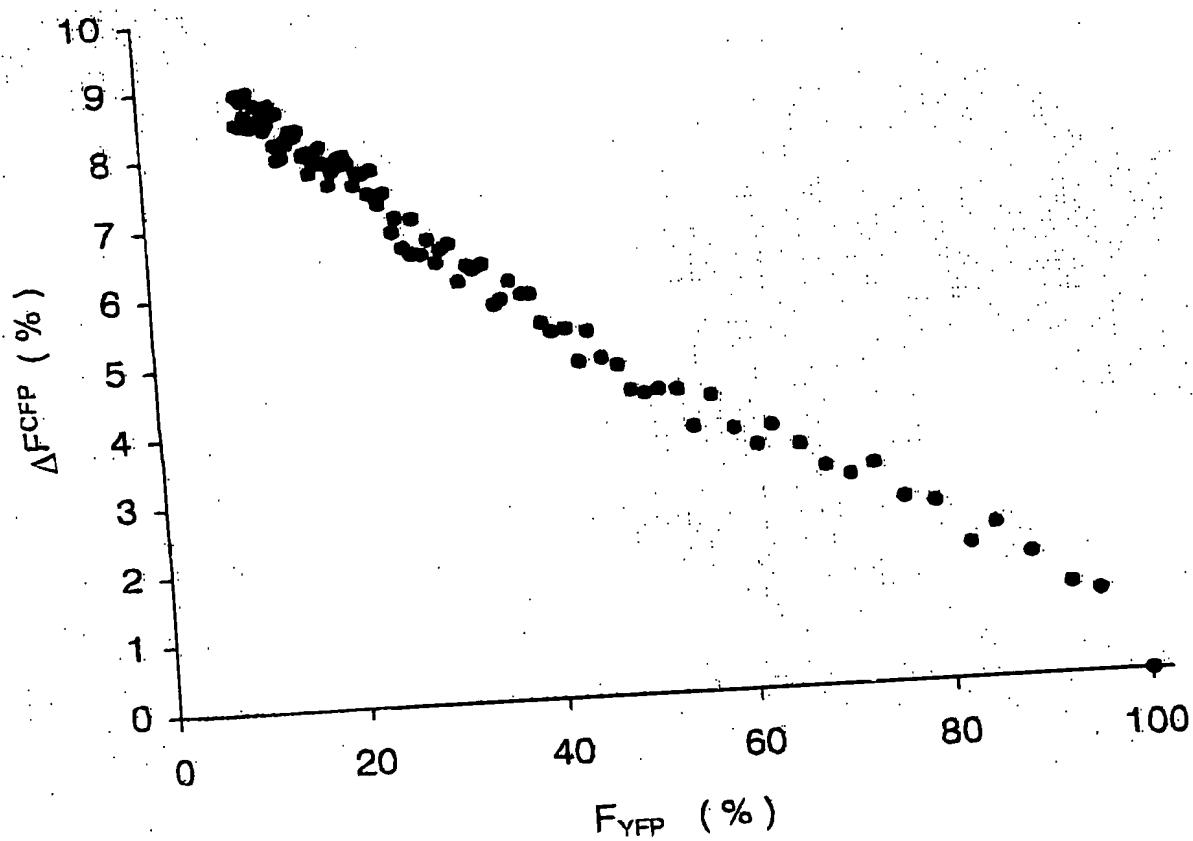


Fig. 5A: Inhibition of interaction of
AKAP188-CFP and RII α -YFP by peptide S-Ht31

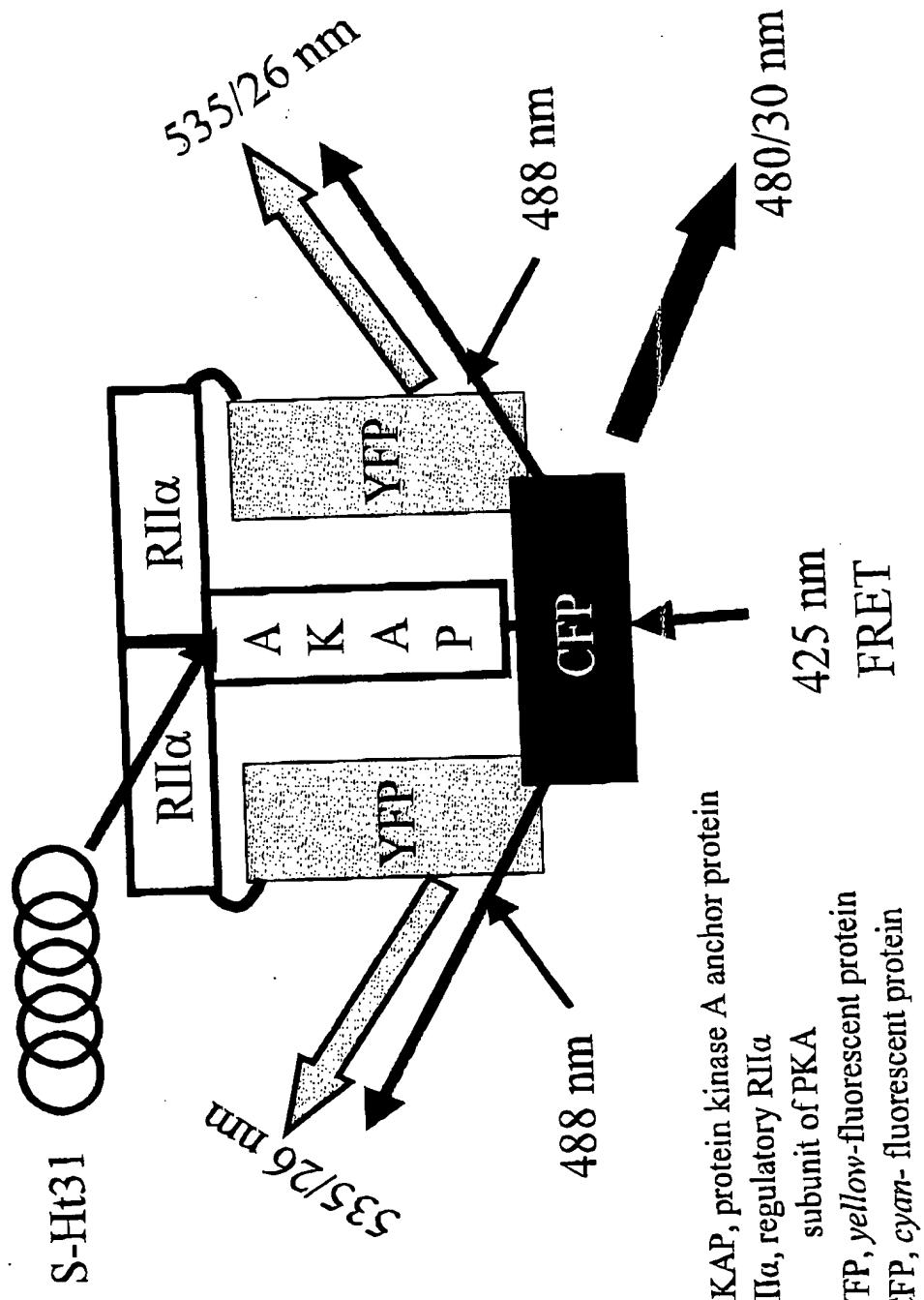


Fig. 5B: Result of inhibition of interaction
between AKAP18δ-CFP and RIIα-YFP by S-Ht31

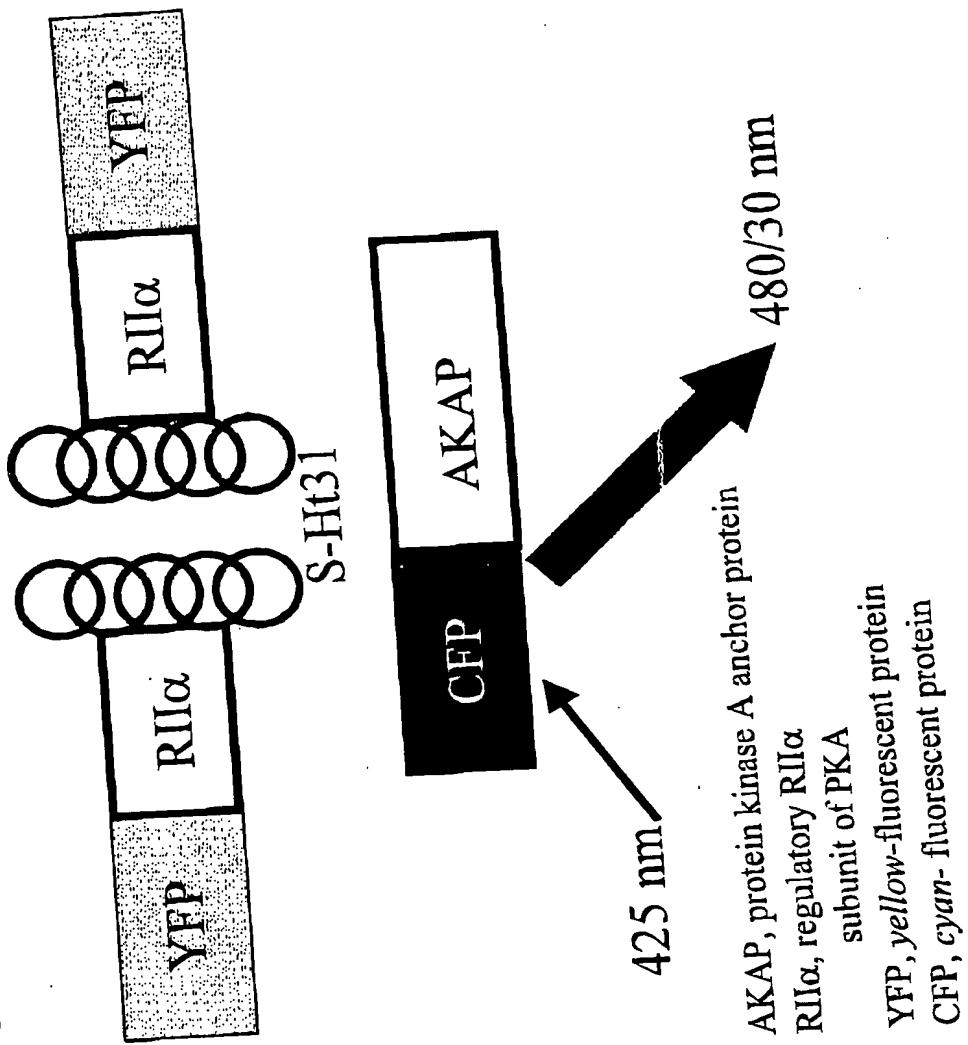


Fig. 6A: Inhibition of interaction of AKAP18δ-CFP and RII α -YFP by peptide S-Ht31 – decrease of FRET signal

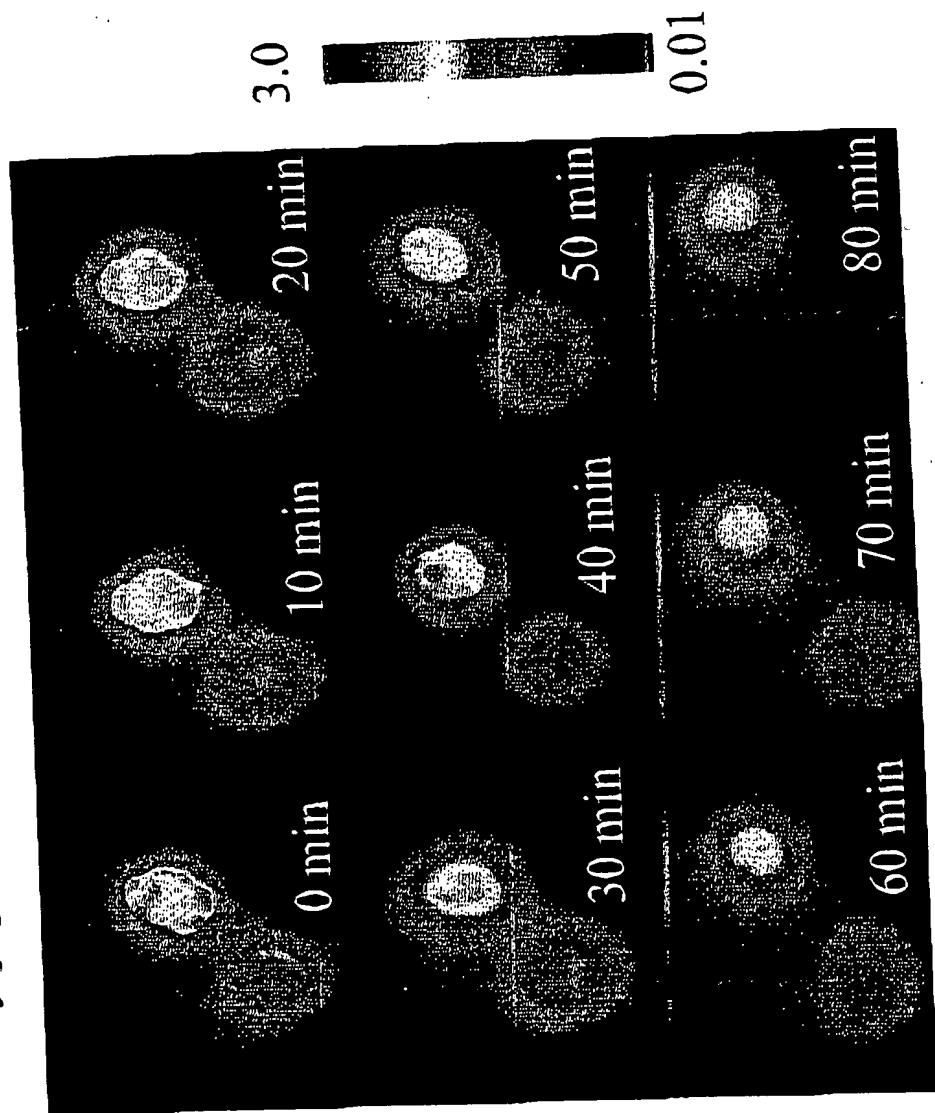


Fig. 6B: Peptide S-Ht31-P fails to inhibit interaction of AKAP188-CFP and RII α -YFP
- no decrease of FRET signal

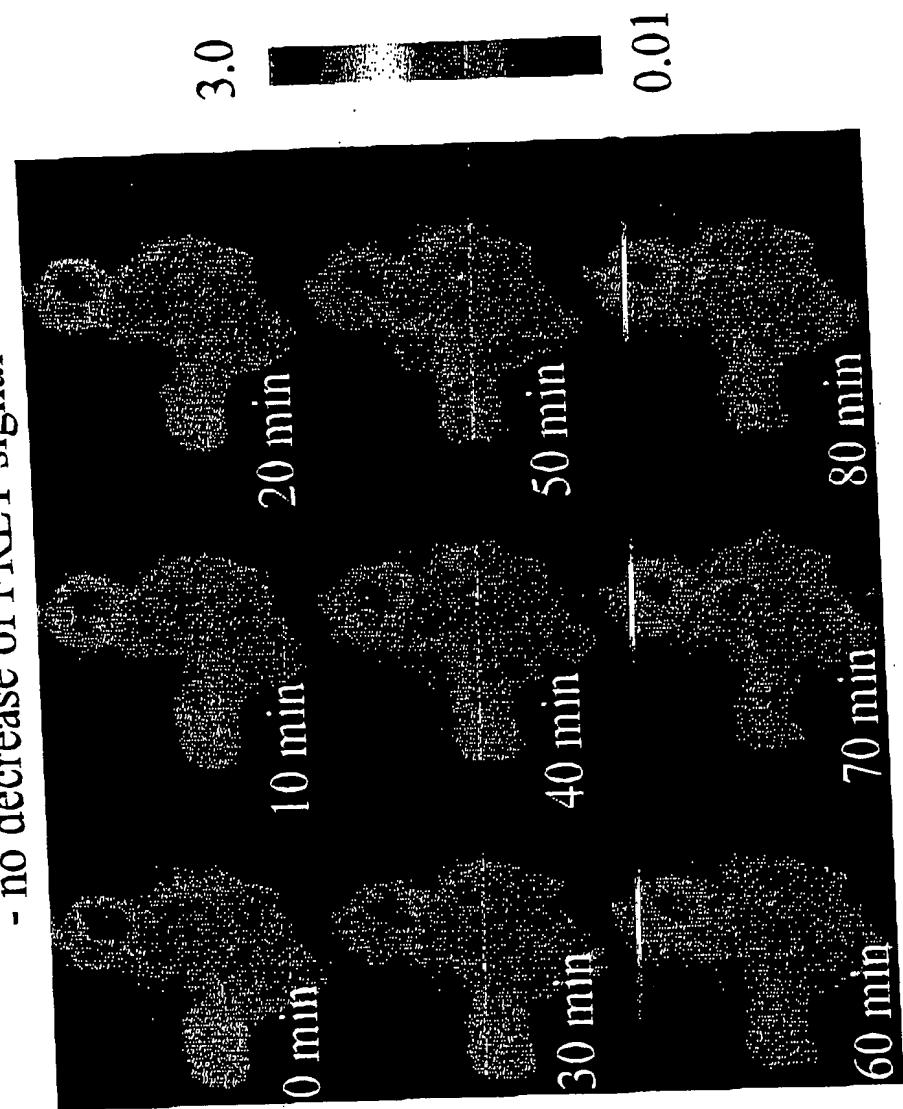
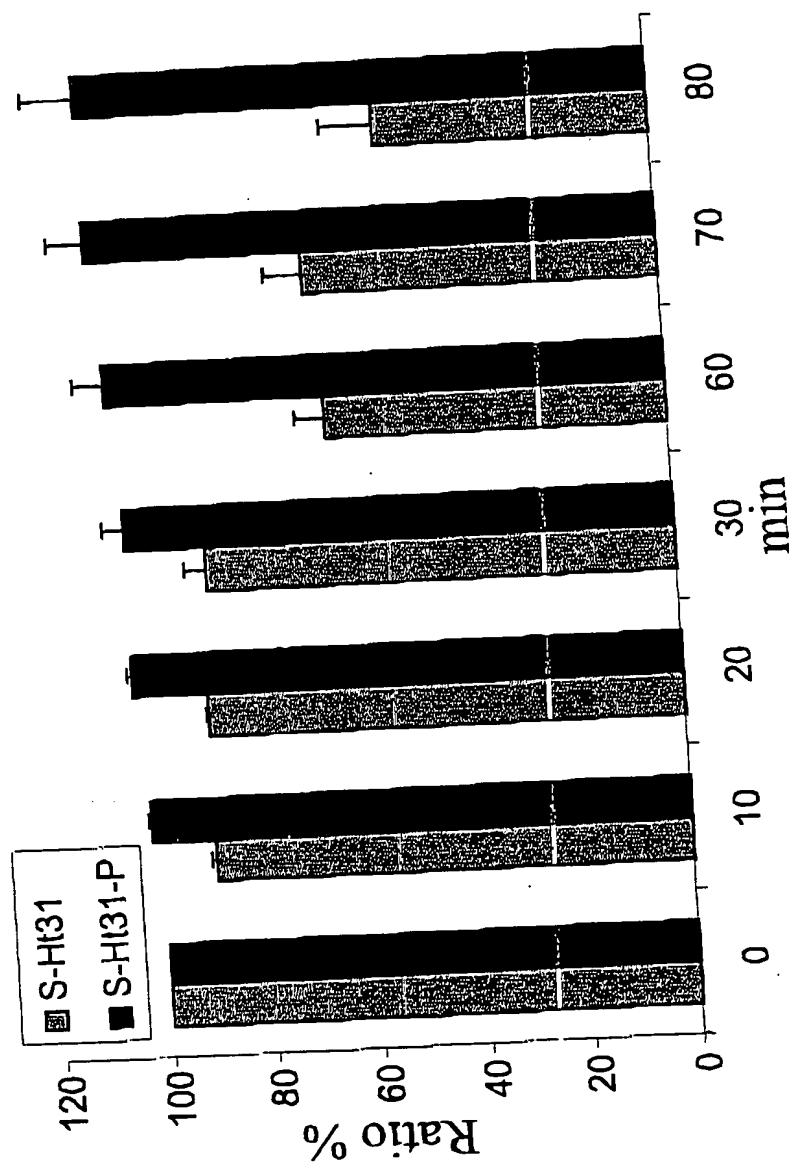


Fig. 6C: Changes in FRET signals (ratio 535/480) of AKAP18δ-CFP and RIIα-YFP in HEK293 cells in the presence of peptides S-Ht31 and S-Ht31-P



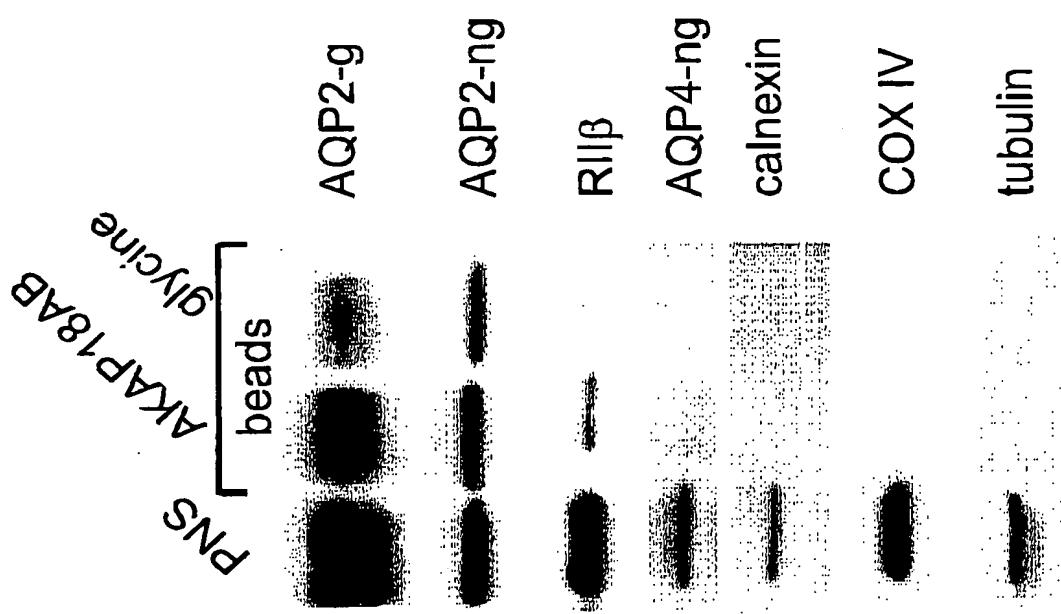
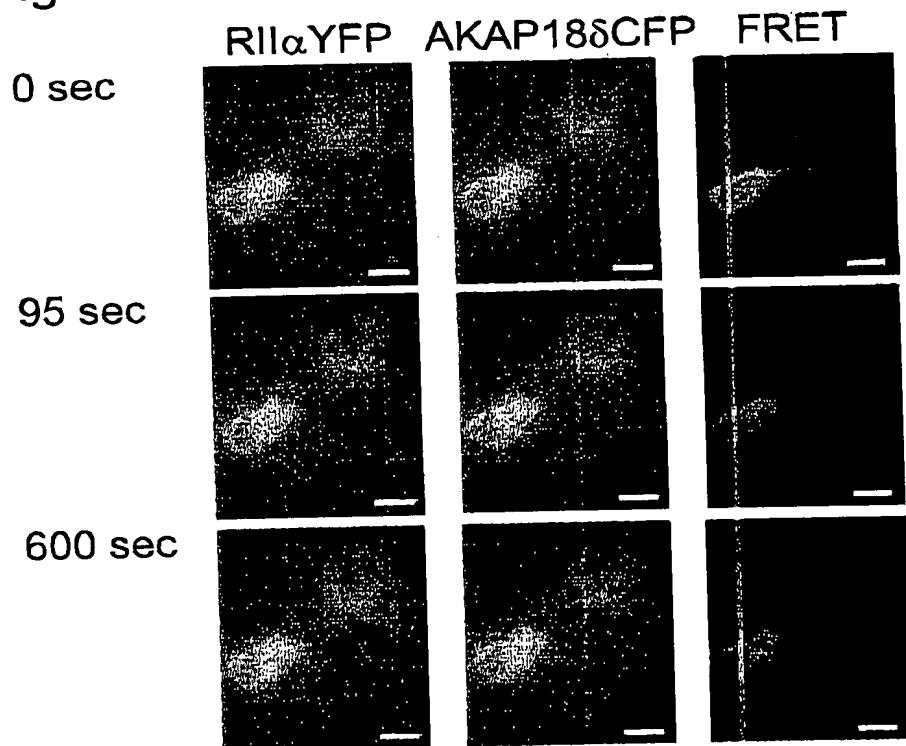
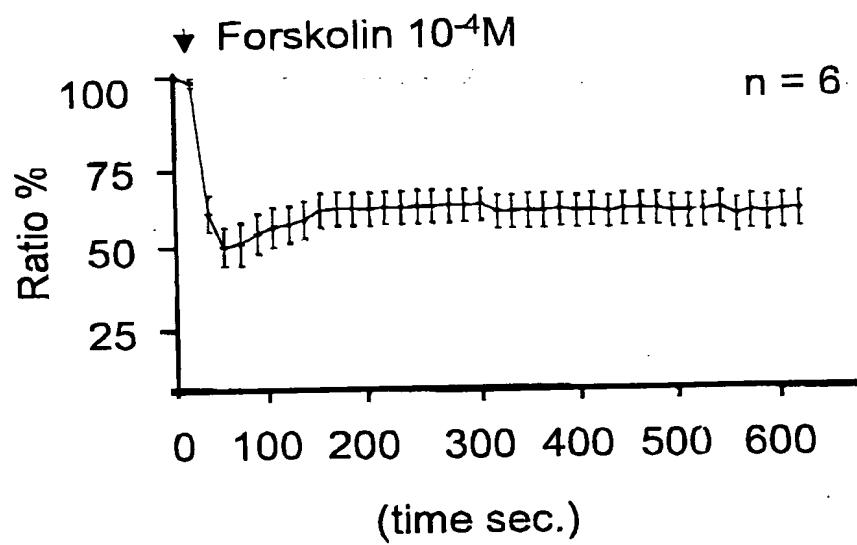
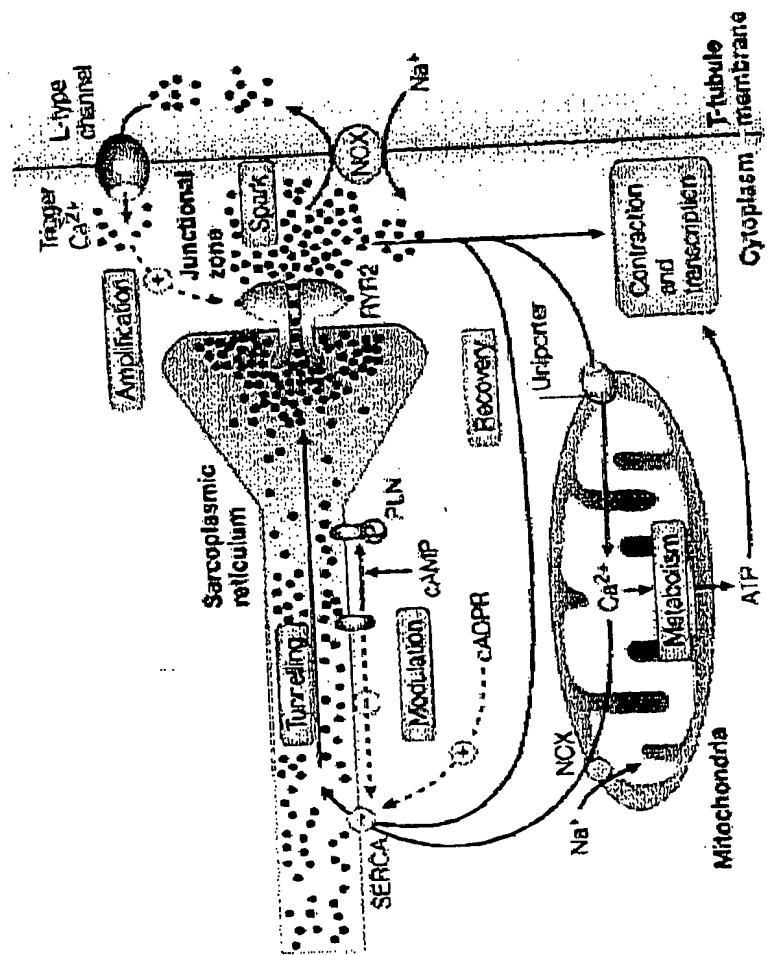
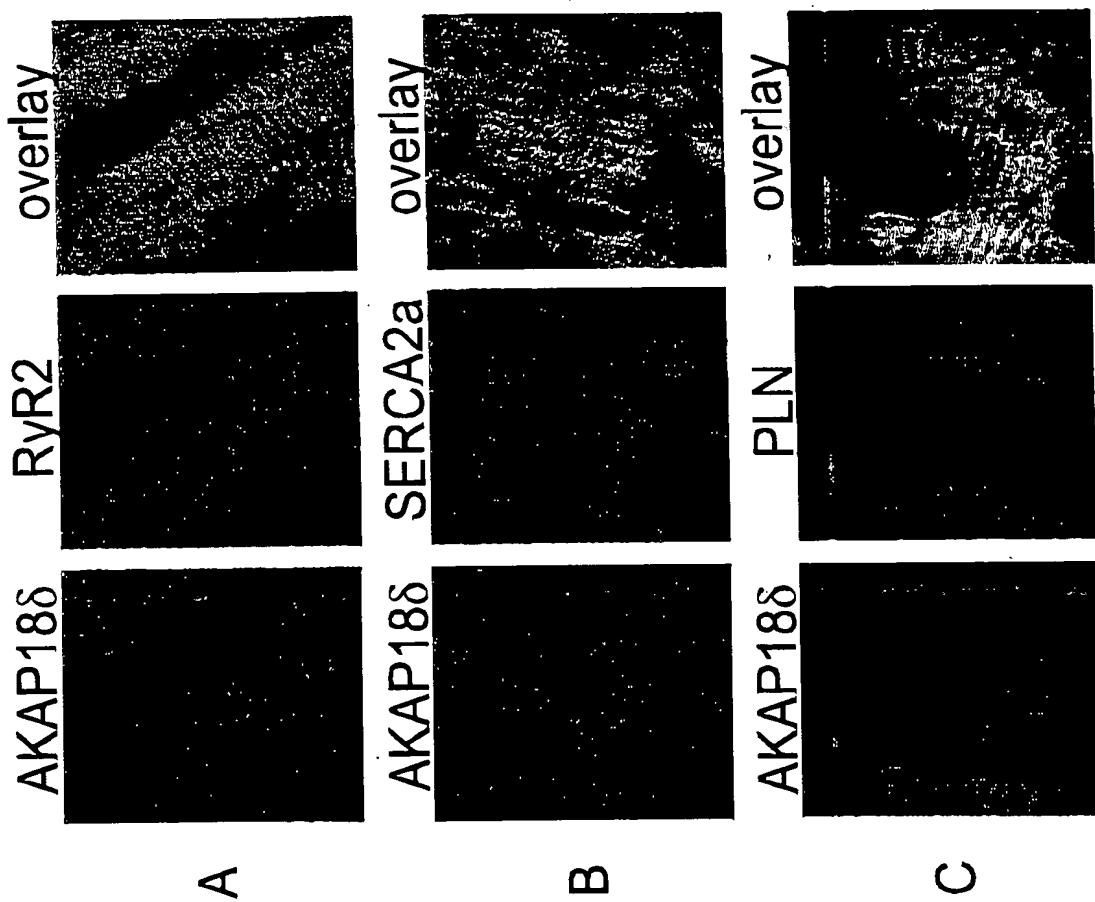


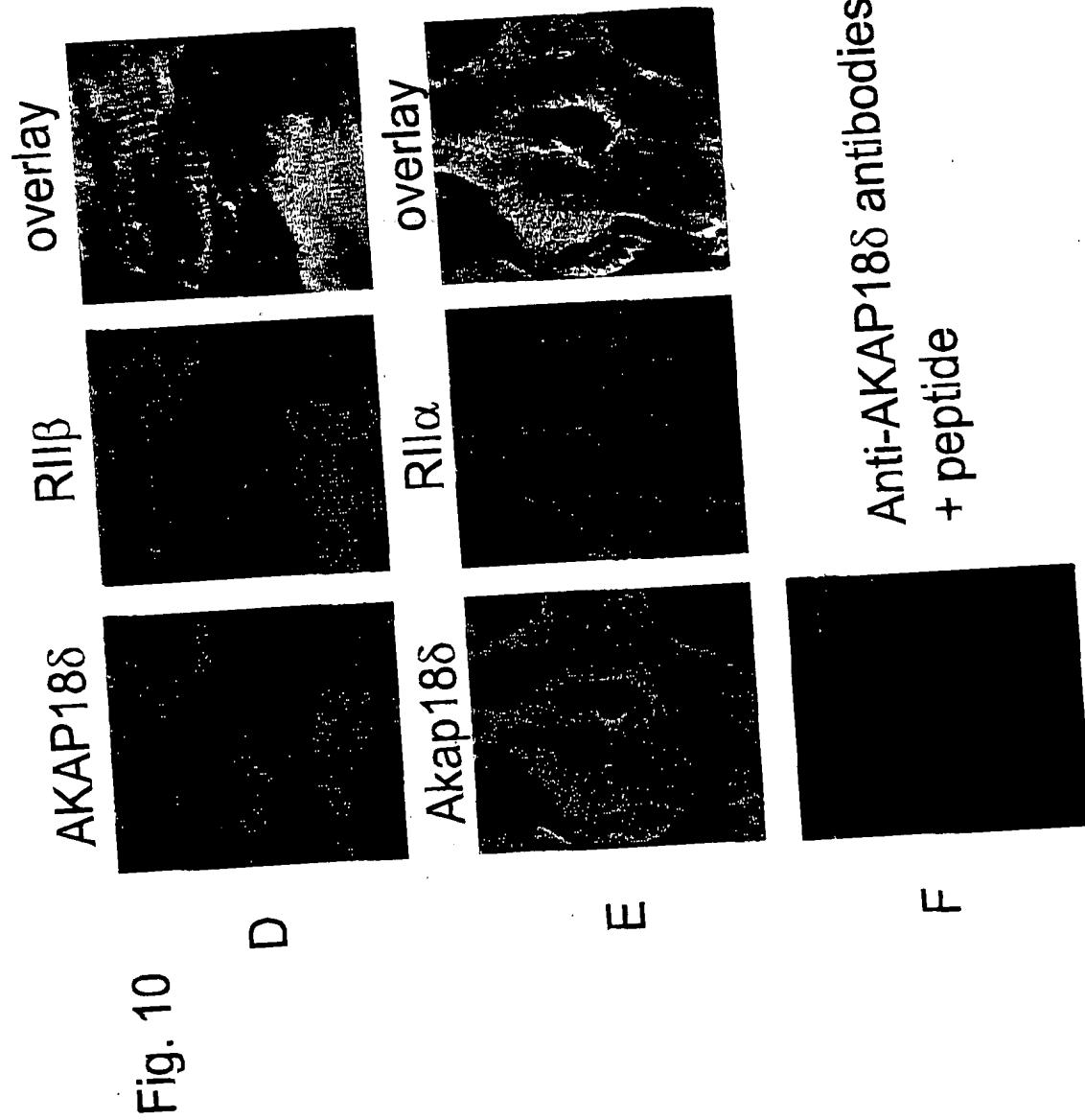
Fig. 8A**B**



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Fig. 9





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